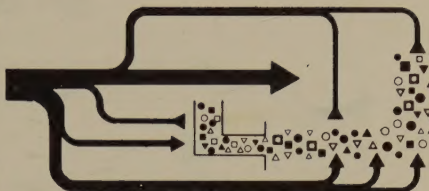


THE JOURNAL FOR RESEARCH ON INTAKE, ITS CONTROL
AND ITS CONSEQUENCES

APPETITE



Volume 2, Numbers 1-4, 1981

Chief Editors

David Booth

Gordon J. Mogenson

Judith Rodin

ACADEMIC PRESS

Subsidiary of Harcourt Brace Jovanovich, Publishers

London New York Toronto Sydney San Francisco



Copyright © 1981, by Academic Press Inc. (London) Limited

ALL RIGHTS RESERVED

No part of this volume may be reproduced in any form, by photostat, microfilm, or any means, without written permission from the publishers.

Contents

Volume 2, number 1, March 1981

Inclusion of meal-reversal in a behaviour modification program for obesity. S. ARMSTRONG, CAROLINE SHAHBAZ and G. SINGER	1
Religion, medicine, politics and spices. LORNA J. SASS	7
Release of feeding by the sweet taste in rats: the influence of body weight. D. G. MOOK and CAROL LYNN CSEH	15
The control of ingestive behaviour by internal and external stimuli—a theoretical review. F. M. TOATES	35
Elevated water intake in rats treated chronically with amphetamine: drinking in excess of need? N. ROWLAND, S. M. ANTELMAN and DONNA KOCAN	51
Taste perception in three individuals on a low sodium diet. MARY BERTINO, G. K. BEAUCHAMP, D. R. RISKEY and K. ENGELMAN	67
Book review F. M. Toates, <i>Animal behavior—a systems approach</i> (N. Mrosovsky)	75
Announcements	6, 74

Volume 2, number 2, June 1981

Nutrition and food policy (<i>review</i>). M. TRACY	77
Dietary self-selection in cycling and neonatally ovariectomized rats. PAULA J. GEISELMAN, J. R. MARTIN, D. A. VANDERWEELE and D. NOVIN	87
Dorsomedial hypothalamic hypophagia: self-selection of diets and macronutrients, efficiency of food utilization, "stress eating", response to high-protein diet and circulating substrate concentrations. L. L. BERNARDIS and L. L. BELLINGER	103
The effects of life stress and weight on mood and eating. JOYCE SLOCHOWER, SHARON P. KAPLAN and LISA MANN	115
Age-related changes in flavor perception. D. A. STEVENS and H. T. LAWLESS	127

Commentary and Reply

Current status of the hepatostatic theory of food intake control (<i>review</i>). M. RUSSEK	137
Commentary on "The current status of the hepatostatic theory of food intake control". L. L. BELLINGER	144
Hepatic glucoreceptors do exist but do not control food intake. JEANINE LOUIS-SYLVESTRE	146
A comment of the "Current status of the hepatostatic theory of food intake control". M. I. FRIEDMAN	149
Neurophysiological evidence for hepatic glucose-sensitive afferents. Commentary on "The current status of hepatic theory of food intake control". A. NIIJIMA	151
On hepatic involvement in the short-term regulation of food ingestion. D. A. VANDERWEELE and D. NOVIN	153

Reply to commentary on "Current status of the hepatostatic theory of food intake control".	
M. RUSSEK	157
Current titles	163
Announcement	102

Volume 2, number 3, September 1981

A diurnal variation in the satiating potency of cholecystokinin in the rat.	
F. S. KRALY	177
Endorphinergic mechanisms in the control of food and water intake.	
D. J. SANGER	193
Salivation and insulin secretion in response to food in non-obese men and women.	
B. J. SAHAKIAN, M. E. J. LEAN, T. W. ROBBINS and W. P. T. JAMES	209
A psychophysical analysis of perceived satiety: its relation to consumatory behavior and degree of overweight.	
M. TEGHTSOONIAN, E. BECKER and B. EDELMAN	217
Cross-modal measurement of perceived satiety: problems of validation.	
A. W. MACRAE	230
Getting satiety taped: comments on Teghtsoonian, Becker and Edelman.	
H. R. KISSILEFF	235
How should questions about satiation be asked?	
D. A. BOOTH	237
The measurement of perceived satiety: a reply to comments on "A psychophysical analysis of perceived satiety".	
M. TEGHTSOONIAN, E. BECKER and B. EDELMAN	245
Book reviews	251
Anne Smith, <i>Obesity. A bibliography, 1974-1979</i> (G. A. Bray)	
F. M. Toates and T. R. Halliday (Eds.) <i>Analysis of motivational processes</i> (F. Reed Hainsworth)	

Volume 2, number 4, December 1981

Dogs as human food in northwest Africa.	
F. J. SIMOONS	253
Release of feeding by the sweet taste in rats: the specificity of oral satiety	
D. G. MOOK, B. D. KUSHNER and L. R. KUSHNER	267
Eating dysfunctions in an institutionalized mentally retarded population.	
D. E. DANFORD and A. M. HUBER	281
Human eating behavior: a critical review of studies in normal weight and overweight individuals.	
L. SPITZER and J. RODIN	293
Forum: salivation in response to food-related stimuli.	
Guest co-editor: B. J. SAHAKIAN	
Relationship of salivation in humans to deprivation, inhibition and the encephalization of hunger.	
O. W. WOOLEY and S. C. WOOLEY	331
Conditioned salivation in obese subjects with different weight kinetics.	
B. GUY-GRAND and H. GOGA	351
Salivation in dieters and non-dieters.	
C. P. HERMAN, J. POLIVY, F. KLANJER and V. M. ESSES	356

Salivation: a useful research tool? M. DURRANT	362
Effects of low-calorie dieting and exposure to diet-prohibited food on appetite and anxiety. J. C. ROSEN	366
Salivation as a measure of appetite: a sensitivity issue. D. A. BOOTH and J. FULLER	370
Sensitivity of stimulus-induced-salivation (SIS), hunger ratings and alliesthesia to a glucose load: SIS as a measure of specific satiation. J. E. BLUNDELL and D. G. FREEMAN	373
An attempt to demonstrate reliable salivary increases in the hungry state. A. BRUMMER and V. E. PUDEL	376
Parotid salivation in response to sodium chloride and monosodium glutamate in water and in broths. R. M. PANGBORN and C. M. CHUNG	380
Salivation and appetite: commentary on the forum. B. J. SAHAKIAN	386
Forum on salivation: concluding comments. O. W. WOOLEY and S. C. WOOLEY	390
Association for Chemoreception Sciences, <i>meeting report</i> 1981	392

Index of Authors

- Antelman, S. M., *see* Rowland, N., 51
- Armstrong, S., Shahbaz, C., & Singer, G. Inclusion of meal-reversal in a behaviour modification program for obesity, 1
- Beauchamp, G. K., *see* Bertino, M., 67
- Becker, E., *see* Teghtsoonian, M., 217
- Becker, E., *see* Teghtsoonian, M., 245
- Bellinger, L. L. Commentary on "The current status of the hepatostatic theory of food intake control", 144
- Bellinger, L. L., *see* Bernardis, L. L., 103
- Bernardis, L. L., & Bellinger, L. L. Dorsomedial hypothalamic hypophagia: self-selection of diets and macronutrients, efficiency of food utilization, "stress eating", response to high-protein diet and circulating substrate concentrations, 103
- Bertino, M., Beauchamp, G. K., Riskey, D. R., & Engelman, K. Taste perception in three individuals on a low sodium diet, 67
- Blundell, J. E., & Freeman, D. G. Sensitivity of stimulus-induced-salivation (SIS), hunger ratings and alliesthesia to a glucose load: SIS as a measure of specific satiation, 373
- Booth, D. A. How should questions about satiation be asked?, 237
- Booth, D. A., & Fuller, J. Salivation as a measure of appetite: a sensitivity issue, 370
- Brummer, A., & Pudel, V. E. An attempt to demonstrate reliable salivary increases in the hungry state, 376
- Chung, C. M., *see* Pangborn, R. M., 380
- Cseh, C. L., *see* Mook, D. G., 15
- Danford, D. E., & Huber, A. M. Eating dysfunctions in an institutionalized mentally retarded population, 281
- Durrant, M. Salivation: a useful research tool?, 362
- Edelman, B., *see* Teghtsoonian, M., 217
- Edelman, B., *see* Teghtsoonian, M., 245
- Engelman, K., *see* Bertino, M., 67
- Esses, V. M., *see* Herman, C. P., 356
- Freeman, D. G., *see* Blundell, J. E., 373
- Friedman, M. I. A comment of the "Current status of the hepatostatic theory of food intake control", 149
- Fuller, J., *see* Booth, D. A., 370
- Geiselman, P. J., Martin, J. R., VanderWeele, D. A., & Novin, D. Dietary self-selection in cycling and neonatally ovariectomized rats, 87
- Goga, H., *see* Guy-Grand, B., 351
- Guy-Grand, B., & Goga, H. Conditioned salivation in obese subjects with different weight kinetics, 351
- Herman, C. P., Polivy, J., Klajner, F., & Esses, V. M. Salivation in dieters and non-dieters, 356
- Huber, A. M., *see* Danford, D. E., 281
- James, W. P. T., *see* Sahakian, B. J., 209
- Kaplan, S. P., *see* Slochower, J., 115
- Kissileff, H. R. Getting satiety taped: comments on Teghtsoonian, Becker and Edelman, 235
- Klajner, F., *see* Herman, C. P., 356
- Kocan, D., *see* Rowland, N., 51
- Kraly, F. S. A diurnal variation in the satiating potency of cholecystokinin in the rat, 177
- Kushner, B. D., *see* Mook, D. G., 267
- Kushner, L. R., *see* Mook, D. G., 267

- Lawless, H. T., *see* Stevens, D. A., 127
- Lean, M. E. J., *see* Sahakian, B. J., 209
- Louis-Sylvestre, J. Hepatic glucoreceptors do exist but do not control food intake, 146
- Macrae, A. W. Cross-modal measurement of perceived satiety: problems of validation, 230
- Mann, L., *see* Slochower, J., 115
- Martin, J. R., *see* Geiselman, P. J., 87
- Mook, D. G., & Cseh, C. L. Release of feeding by the sweet taste in rats: the influence of body weight, 15
- Mook, D. G., Kushner, B. D., & Kushner, L. R. Release of feeding by the sweet taste in rats: the specificity of oral satiety, 267
- Nijijima, A. Neurophysiological evidence for hepatic glucose-sensitive afferents. Commentary on "The current status of hepatic theory of food intake control", 151
- Novin, D., *see* Geiselman, P. J., 87
- Novin, D., *see* VanderWeele, D. A., 153
- Pangborn, R. M., & Chung, C. M. Parotid salivation in response to sodium chloride and monosodium glutamate in water and in broths, 380
- Polivy, J., *see* Herman, C. P., 356
- Pudel, V. E., *see* Brummer, A., 376
- Rodin, J., *see* Spitzer, L., 293
- Rosen, J. C. Effects of low-calorie dieting and exposure to diet-prohibited food on appetite and anxiety, 366
- Riskey, D. R., *see* Bertino, M., 67
- Rowland, N., Antelman, S. M., & Kocan, D. Elevated water intake in rats treated chronically with amphetamine: drinking in excess of need?, 51
- Russek, M. Current status of the hepatostatic theory of food intake control (review), 137
- Robbins, T. W., *see* Sahakian, B. J., 209
- Russek, M. Reply to commentary on "Current status of the hepatostatic theory of food intake control", 157
- Sahakian, B. J. Salivation and appetite: commentary on the forum, 386
- Sahakian, B. J., Lean, M. E. J., Robbins, T. W., & James, W. P. T. Salivation and insulin secretion in response to food in non-obese men and women, 209
- Sanger, D. J. Endorphinergic mechanisms in the control of food and water intake, 193
- Sass, L. J. Religion, medicine, politics and spices, 7
- Shahbaz, C., *see* Armstrong, S., 1
- Simoons, F. J. Dogs as human food in northwest Africa, 253
- Singer, G., *see* Armstrong, S., 1
- Slochower, J., Kaplan, S. P., & Mann, L. The effects of life stress and weight on mood and eating, 115
- Spitzer, L., & Rodin, J. Human eating behaviour: a critical review of studies in normal weight and overweight individuals, 293
- Stevens, D. A., & Lawless, H. T. Age-related changes in flavour perception, 127
- Teghtsoonian, M., Becker, E., & Edelman, B. A psychophysical analysis of perceived satiety: its relation to consumatory behavior and degree of overweight, 217
- Teghtsoonian, M., Becker, E., & Edelman, B. The measurement of perceived satiety: a reply to comments on "A psychophysical analysis of perceived satiety", 245
- Toates, F. M. The control of ingestive behaviour by internal and external stimuli—a theoretical review, 35
- Tracy, M. Nutrition and food policy (review), 77

VanderWeele, D. A., *see* Geiselman, P. J., 87

VanderWeele, D. A., & Novin, D. On hepatic involvement in the short-term regulation of food ingestion, 153

Wooley, O. W., & Wooley, S. C. Relationship of salivation in humans to deprivation, inhibition and encephalization of hunger, 331

Wooley, S. C., *see* Wooley, O. W., 331

Wooley, O. W., & Wooley, S. C. Forum on salivation: concluding comments, 390